

SHOCK RESISTANT DEVICE

ABSTRACT

A shock resistant device. A printed circuit board comprising electronics and a frequency reference is rigidly mounted to a central support member. The electronics can be mounted to both surfaces of the printed circuit board. The central support member is mounted to an enclosure via wire rope isolators. The central support member is designed to maximize rigidity at minimum mass. The central support member can comprise a thin wall metal mesh or honeycomb. At least a portion of the central support member directly contacts the printed circuit board beneath the frequency reference.